

February 20, 1964

New Mexico Oil Conservation Commission
Box 1980
Hobbs, New Mexico

Gentlemen:

Listed below is a list of all deviation surveys, depths taken and angle of inclination (degrees) at the depths taken while drilling Lone Star Producing Company's Atlantic State No. 1 well located in Section 30, T-17-S, R-36-E, Lea County, New Mexico.

<u>Depth (feet)</u>	<u>Angle of Inclination (degrees)</u>	<u>Depth (feet)</u>	<u>Angle of Inclination (degrees)</u>
200'	1/2	5,220'	2
451'	1/4	5,732'	1
855'	3/4	6,064'	1-1/4
1,754'	1/2	6,455'	1
2,104'	1/2	6,800'	2
2,900'	1/2	7,390'	1
3,464'	1-3/4	7,690'	2
3,650'	1-1/4	7,760'	1-3/4
3,822'	3/4	7,852'	2
4,134'	1	8,165'	2
4,247'	2-1/2	8,568'	2-3/4
4,305'	2-1/4	8,609'	2-1/2
4,437'	2-3/4	8,820'	2
4,615'	3	9,088'	3-3/4
4,691'	3	9,222'	3-3/4
4,800'	2-3/4	9,272'	4
4,919'	3	9,327'	4
5,020'	2		

Sincerely,

E. C. Watson

E. C. Watson
Sr. Production Foreman

ECW:vjd

Subscribed and sworn to before me this 26th day of February, 19 64

Thomas J. Anderson
(Notary Public, Midland County, Texas)

199

351 .02 2000000

[illegible]

1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 26

[illegible]

to signa (address) conventional	to signa (address) conventional	to signa (address) conventional	to signa (address) conventional
1000	1000	1000	1000
1001	1001	1001	1001
1002	1002	1002	1002
1003	1003	1003	1003
1004	1004	1004	1004
1005	1005	1005	1005
1006	1006	1006	1006
1007	1007	1007	1007
1008	1008	1008	1008
1009	1009	1009	1009
1010	1010	1010	1010
1011	1011	1011	1011
1012	1012	1012	1012
1013	1013	1013	1013
1014	1014	1014	1014
1015	1015	1015	1015
1016	1016	1016	1016
1017	1017	1017	1017
1018	1018	1018	1018
1019	1019	1019	1019
1020	1020	1020	1020
1021	1021	1021	1021
1022	1022	1022	1022
1023	1023	1023	1023
1024	1024	1024	1024
1025	1025	1025	1025
1026	1026	1026	1026
1027	1027	1027	1027
1028	1028	1028	1028
1029	1029	1029	1029
1030	1030	1030	1030
1031	1031	1031	1031
1032	1032	1032	1032
1033	1033	1033	1033
1034	1034	1034	1034
1035	1035	1035	1035
1036	1036	1036	1036
1037	1037	1037	1037
1038	1038	1038	1038
1039	1039	1039	1039
1040	1040	1040	1040
1041	1041	1041	1041
1042	1042	1042	1042
1043	1043	1043	1043
1044	1044	1044	1044
1045	1045	1045	1045
1046	1046	1046	1046
1047	1047	1047	1047
1048	1048	1048	1048
1049	1049	1049	1049
1050	1050	1050	1050
1051	1051	1051	1051
1052	1052	1052	1052
1053	1053	1053	1053
1054	1054	1054	1054
1055	1055	1055	1055
1056	1056	1056	1056
1057	1057	1057	1057
1058	1058	1058	1058
1059	1059	1059	1059
1060	1060	1060	1060
1061	1061	1061	1061
1062	1062	1062	1062
1063	1063	1063	1063
1064	1064	1064	1064
1065	1065	1065	1065
1066	1066	1066	1066
1067	1067	1067	1067
1068	1068	1068	1068
1069	1069	1069	1069
1070	1070	1070	1070
1071	1071	1071	1071
1072	1072	1072	1072
1073	1073	1073	1073
1074	1074	1074	1074
1075	1075	1075	1075
1076	1076	1076	1076
1077	1077	1077	1077
1078	1078	1078	1078
1079	1079	1079	1079
1080	1080	1080	1080
1081	1081	1081	1081
1082	1082	1082	1082
1083	1083	1083	1083
1084	1084	1084	1084
1085	1085	1085	1085
1086	1086	1086	1086
1087	1087	1087	1087
1088	1088	1088	1088
1089	1089	1089	1089
1090	1090	1090	1090
1091	1091	1091	1091
1092	1092	1092	1092
1093	1093	1093	1093
1094	1094	1094	1094
1095	1095	1095	1095
1096	1096	1096	1096
1097	1097	1097	1097
1098	1098	1098	1098
1099	1099	1099	1099
1100	1100	1100	1100
1101	1101	1101	1101
1102	1102	1102	1102
1103	1103	1103	1103
1104	1104	1104	1104
1105	1105	1105	1105
1106	1106	1106	1106
1107	1107	1107	1107
1108	1108	1108	1108
1109	1109	1109	1109
1110	1110	1110	1110
1111	1111	1111	1111
1112	1112	1112	1112
1113	1113	1113	1113
1114	1114	1114	1114
1115	1115	1115	1115
1116	1116	1116	1116
1117	1117	1117	1117
1118	1118	1118	1118
1119	1119	1119	1119
1120	1120	1120	1120
1121	1121	1121	1121
1122	1122	1122	1122
1123	1123	1123	1123
1124	1124	1124	1124
1125	1125	1125	1125
1126	1126	1126	1126
1127	1127	1127	1127
1128	1128	1128	1128
1129	1129	1129	1129
1130	1130	1130	1130
1131	1131	1131	1131
1132	1132	1132	1132
1133	1133	1133	1133
1134	1134	1134	1134
1135	1135	1135	1135
1136	1136	1136	1136
1137	1137	1137	1137
1138	1138	1138	1138
1139	1139	1139	1139
1140	1140	1140	1140
1141	1141	1141	1141
1142	1142	1142	1142
1143	1143	1143	1143
1144	1144	1144	1144
1145	1145	1145	1145
1146	1146	1146	1146
1147	1147	1147	1147
1148	1148	1148	1148
1149	1149	1149	1149
1150	1150	1150	1150
1151	1151	1151	1151
1152	1152	1152	1152
1153	1153	1153	1153
1154	1154	1154	1154
1155	1155	1155	1155
1156	1156	1156	1156
1157	1157	1157	1157
1158	1158	1158	1158
1159	1159	1159	1159
1160	1160	1160	1160
1161	1161	1161	1161
1162	1162	1162	1162
1163	1163	1163	1163
1164	1164	1164	1164
1165	1165	1165	1165
1166	1166	1166	1166
1167	1167	1167	1167
1168	1168	1168	1168
1169	1169	1169	1169
1170	1170	1170	1170
1171	1171	1171	1171
1172	1172	1172	1172
1173	1173	1173	1173
1174	1174	1174	1174
1175	1175	1175	1175
1176	1176	1176	1176
1177	1177	1177	1177
1178	1178	1178	1178
1179	1179	1179	1179
1180	1180	1180	1180
1181	1181	1181	1181
1182	1182	1182	1182
1183	1183	1183	1183
1184	1184	1184	1184
1185	1185	1185	1185
1186	1186	1186	1186
1187	1187	1187	1187
1188	1188	1188	1188
1189	1189	1189	1189
1190	1190	1190	1190
1191	1191	1191	1191
1192	1192	1192	1192
1193	1193	1193	1193
1194	1194	1194	1194
1195	1195	1195	1195
1196	1196	1196	1196
1197	1197	1197	1197
1198	1198	1198	1198
1199	1199	1199	1199
1200	1200	1200	1200
1201	1201	1201	1201
1202	1202	1202	1202
1203	1203	1203	1203
1204	1204	1204	1204
1205	1205	1205	1205
1206	1206	1206	1206
1207	1207	1207	1207
1208	1208	1208	1208
1209	1209	1209	1209
1210	1210	1210	1210
1211	1211	1211	1211
1212	1212	1212	1212
1213	1213	1213	1213
1214	1214	1214	1214
1215	1215	1215	1215
1216	1216	1216	1216
1217	1217	1217	1217
1218	1218	1218	1218
1219	1219	1219	1219
1220	1220	1220	1220
1221	1221	1221	1221
1222	1222	1222	1222
1223	1223	1223	1223
1224	1224	1224	1224
1225	1225	1225	1225
1226	1226	1226	1226
1227	1227	1227	1227
1228	1228	1228	1228
1229	1229	1229	1229
1230	1230	1230	1230
1231	1231	1231	1231
1232	1232	1232	1232
1233	1233	1233	1233
1234	1234	1234	1234
1235	1235	1235	1235
1236	1236	1236	1236
1237	1237	1237	1237
1238	1238	1238	1238
1239	1239	1239	1239
1240	1240	1240	1240
1241	1241	1241	1241
1242	1242	1242	1242
1243	1243	1243	1243
1244	1244	1244	1244
1245	1245	1245	1245
1246	1246	1246	1246
1247	1247	1247	1247
1248	1248	1248	1248
1249	1249	1249	1249
1250	1250	1250	1250
1251	1251	1251	1251
1252	1252	1252	1252
1253	1253	1253	1253
1254	1254	1254	1254
1255	1255	1255	1255
1256	1256	1256	1256
1257	1257	1257	1257
1258	1258	1258	1258
1259	1259	1259	1259
1260	1260	1260	1260
1261	1261	1261	1261
1262	1262	1262	1262
1263	1263	1263	1263
1264	1264	1264	1264
1265	1265	1265	1265
1266	1266	1266	1266
1267	1267	1267	1267
1268	1268	1268	1268
1269	1269	1269	1269
1270	1270	1270	1270
1271	1271	1271	1271
1272	1272	1272	1272
1273	1273	1273	1273
1274	1274	1274	1274
1275	1275	1275	1275
1276	1276	1276	1276
1277	1277	1277	1277
1278	1278	1278	1278
1279	1279	1279	1279
1280	1280	1280	1280
1281	1281	1281	1281
1282	1282	1282	1282
1283	1283	1283	1283
1284	1284	1284	1284
1285	1285	1285	1285
1286	1286	1286	1286
1287	1287	1287	1287
1288	1288	1288	1288
1289	1289	1289	1289
1290	1290	1290	1290
1291	1291	1291	1291
1292	1292	1292	1292
1293	1293	1293	1293
1294	1294	1294	1294
1295	1295	1295	1295
1296	1296	1296	1296
1297	1297	1297	1297
1298	1298	1298	1298
1299	1299	1299	1299
1300	1300	1300	1300
1301	1301	1301	1301
1302	1302	1302	1302
1303	1303	1303	1303
1304	1304	1304	1304
1305	1305	1305	1305
1306	1306	1306	1306
1307	1307	1307	1307

...plevnot:

SECRET POLICY: 11

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Whistler (1973). The total chlorophyll content was determined by the method of Arar and Cook (1980). The carotenoid content was determined by the method of Lichtenthaler and Whistler (1973). The total carotenoid content was determined by the method of Arar and Cook (1980). The total carotenoid content was determined by the method of Arar and Cook (1980).

There are no notes and no notes on notes are included.

(Sect. 1000) bnsfbrk (oil) 1960